



6AS8

DIODE--SHARP-CUTOFF PENTODE

9-PIN MINIATURE TYPE

6AS8

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage 6.3 ac or dc volts

Current 0.45 amp

Direct Interelectrode Capacitances (Approx.):*

Diode Unit:

Plate to heater and cathode and
internal shield 3.0 μ f

Pentode Unit:

Grid No.1 to plate 0.04 max. μ f

Input 7 μ f

Output 2.2 μ f

Pentode grid to diode plate 0.005 max. μ f

Pentode plate to diode cathode 0.15 max. μ f

Pentode plate to diode plate 0.10 max. μ f

Characteristics, Class A₁:

Plate-Supply Voltage 200 volts

Grid No.3 Connected to cathode at socket

Grid-No.2 Supply Voltage 150 volts

Cathode-Bias Resistor 180 ohms

Plate Resistance (Approx.) 300000 ohms

Transconductance 6200 μ mhos

Grid-No.1 Bias (Approx.) for Plate

Current of 10 μ amp -8 volts

Plate Current 9.5 ma

Grid-No.2 Current 3 ma

Mechanical:

Mounting Position Any

Maximum Overall Length 2-3/16"

Maximum Seated Length 1-15/16"

Length, Base Seat to Bulb Top

(Excluding Tip) 1-9/16" \pm 3/32"

Maximum Diameter 7/8"

Bulb T-6-1/2

Base Small-Button Noval 9-Pin (JETEC No.E9-1)

Basing Designation for BOTTOM VIEW 9DS

Pin 1 - Pentode

Grid No.2

Pin 2 - Pentode

Grid No.1

Pin 3 - Pentode

Cathode

Pin 4 - Heater

Pin 5 - Heater

Pin 6 - Diode

Plate

Pin 7 - Pentode

Grid No.3,

Int.Shield

Pin 8 - Diode

Cathode

Pin 9 - Pentode

Plate



* With no external shield.

MAY 3, 1954

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

6AS8



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DIODE—SHARP-CUTOFF PENTODE

PENTODE UNIT—Class A₁ Amplifier

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	300 max. volts
GRID-No.3 (SUPPRESSOR) VOLTAGE	0 max. volts
GRID-No.2 SUPPLY VOLTAGE	300 max. volts
GRID-No.2 (SCREEN) VOLTAGE	See Rating Curve at front of this Section

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive bias value	0 max. volts
PLATE DISSIPATION	2.5 max. watts
GRID-No.2 INPUT	0.5 max. watt

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode	200 max. volts
Heater positive with respect to cathode	200 max. volts

Maximum Circuit Values (For maximum rated conditions):

Grid-No.1—Circuit Resistance:

For cathode-bias operation	1.0 max. megohm
For fixed-bias operation	0.25 max. megohm

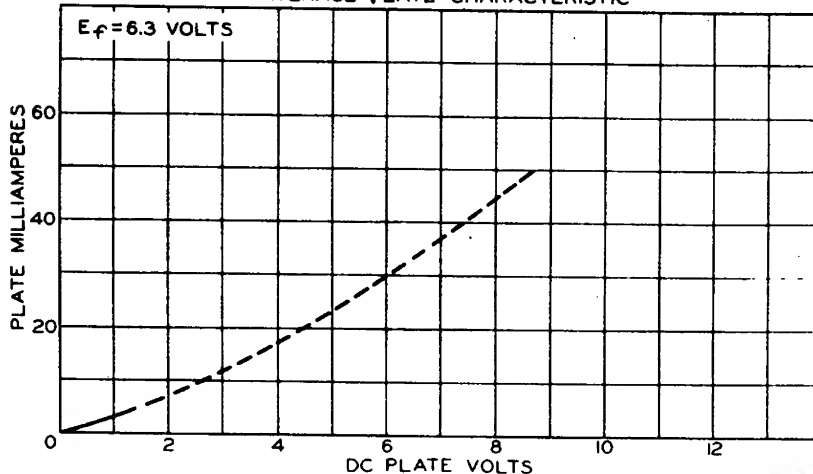
DIODE UNIT

Maximum Ratings, Design-Center Values:

PEAK INVERSE PLATE VOLTAGE	330 max. volts
PEAK PLATE CURRENT	50 max. ma
DC PLATE CURRENT	5 max. ma
PEAK HEATER-CATHODE VOLTAGE:	
Heater negative with respect to cathode	200 max. volts
Heater positive with respect to cathode	200 max. volts

• The dc component must not exceed 100 volts.

AVERAGE PLATE CHARACTERISTIC



92CM-8236T

MAY 3, 1954

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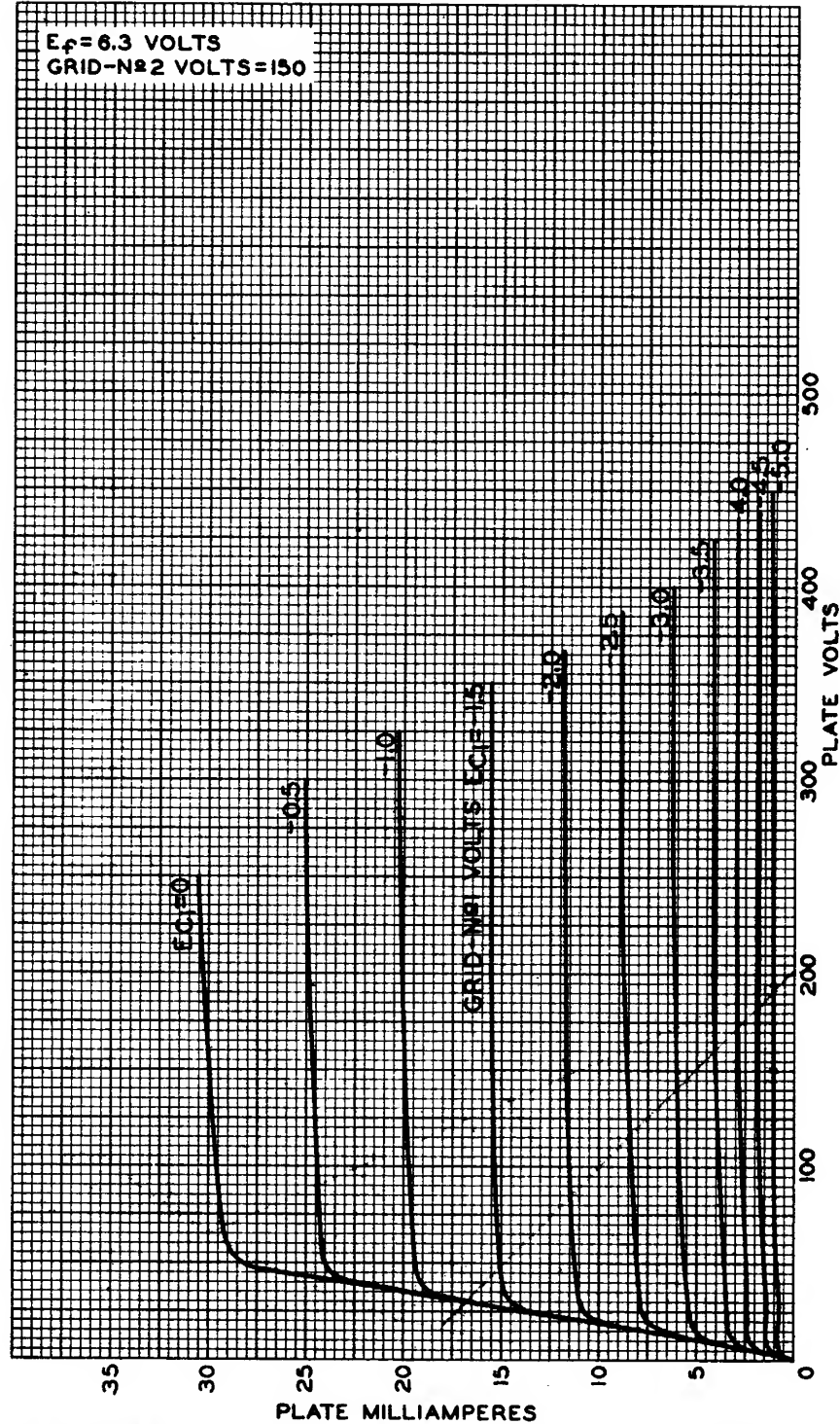
TENTATIVE DATA



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AVERAGE PLATE CHARACTERISTICS PENTODE UNIT



DEC.23,1953

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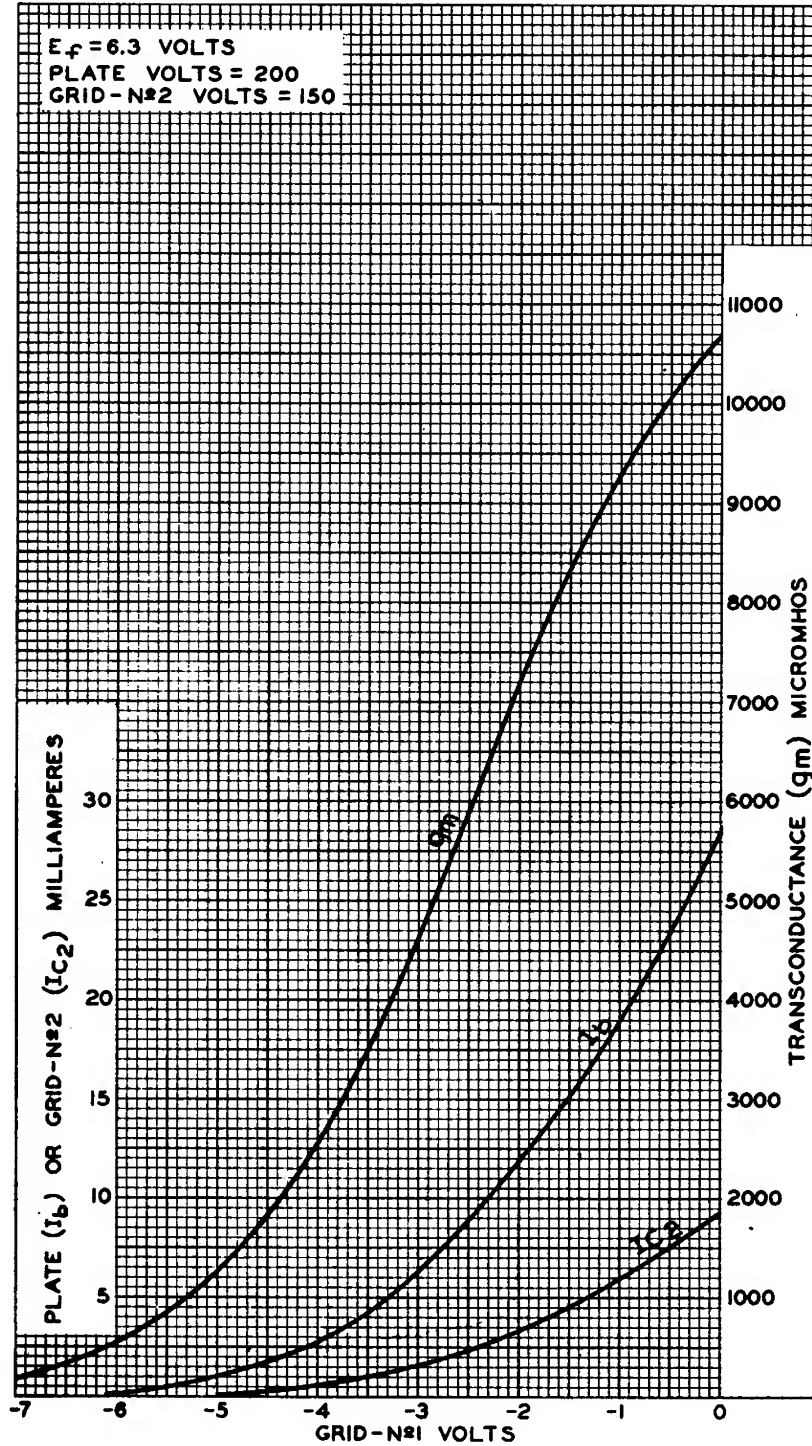
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AVERAGE CHARACTERISTICS PENTODE UNIT



DEC. 23, 1953

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